

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

**Augmentation of water supply through borewell, network of pipelines and ground water
charge facilities in various layout of Harohalli, Nagenahalli, Kenchenahalli, Ananthapura,
Doddabettahalli and Chikkabettahalli village limits in ward No 02, 03 of Yelahanka Division
(PACKAGE NO-16)**

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS or P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging technical personal and labour required etc., as per Specification and direction (P.47, I. 9.4) PRED.SR 2019-20								
	Nos							
Basic Rate	3768.0							
Harohalli		5				5.00		
Nagenahalli		5				5.00		
Kenchenahalli		5				5.00		
Ananthapura		4				4.00		
Chikkabettahalli		4				4.00		
Doddabettahalli		4				4.00		
						27.00	3768.00	101736.00
Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2019-20								
Basic Rate	347.00							
0 to 50 m	Rmtr							
Harohalli		5	50.00			250.00		
Nagenahalli		5	50.00			250.00		
Kenchenahalli		5	50.00			250.00		
Ananthapura		4	50.00			200.00		
Chikkabettahalli		4	50.00			200.00		
Doddabettahalli		4	50.00			200.00		
						1350.00	347.00	468450.00
Basic Rate	442.00							
50 to 100 m	Rmtr							
Harohalli		5	50.00			250.00		
Nagenahalli		5	50.00			250.00		
Kenchenahalli		5	50.00			250.00		
Ananthapura		4	50.00			200.00		
Chikkabettahalli		4	50.00			200.00		
Doddabettahalli		4	50.00			200.00		

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
						1350.00	442.00	596700.00
Basic Rate	456.00							
100 to 150 m	Rmtr							
Harohalli		5	50.00			250.00		
Nagenahalli		5	50.00			250.00		
Kenchenahalli		5	50.00			250.00		
Ananthapura		5	50.00			250.00		
Chikkabettahalli		5	50.00			250.00		
Doddabettahalli		5	50.00			250.00		
						1500.00	456.00	684000.00
Basic Rate	536.00							
150 to 200 m	Rmtr							
Harohalli		5	50.00			250.00		
Nagenahalli		5	50.00			250.00		
Kenchenahalli		5	50.00			250.00		
Ananthapura		5	50.00			250.00		
Chikkabettahalli		5	50.00			250.00		
Doddabettahalli		5	50.00			250.00		
						1500.00	536.00	804000.00
Basic Rate	634.00							
200 to 250 m	Rmtr							
Harohalli		5	50.00			250.00		
Nagenahalli		5	50.00			250.00		
Kenchenahalli		5	50.00			250.00		
Ananthapura		5	50.00			250.00		
Chikkabettahalli		5	50.00			250.00		
Doddabettahalli		5	50.00			250.00		
						1500.00	634.00	951000.00
Basic Rate	700.00							
250 to 300 m	Rmtr							
Harohalli		5	50.00			250.00		
Nagenahalli		5	50.00			250.00		
Kenchenahalli		5	50.00			250.00		
Ananthapura		5	50.00			250.00		
Chikkabettahalli		5	50.00			250.00		
Doddabettahalli		5	50.00			250.00		
						1500.00	700.00	1050000.00
Basic Rate	825.00							
300 to 350 m	Rmtr							
Harohalli		5	50.00			250.00		
Nagenahalli		5	45.00			225.00		
Kenchenahalli		5	50.00			250.00		
Ananthapura		5	50.00			250.00		
Chikkabettahalli		5	40.00			200.00		
Doddabettahalli		5	40.00			200.00		
						1375.00	825.00	1134375.00

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
Drilling of Borewells SE PRED I no. 13.06								
anthapura		1	100.00			100.00		
ikkabettahalli		1	100.00			100.00		
doddabettahalli		1	100.00			100.00		
	Rmtr					300.00	312.00	93600.00

Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 54 / 1985, one end fixed with a socket and the other end with a plastic protection end (including of all axes) SE PRED III NO 84

harohalli		5	60.00			300.00		
Nagenahalli		5	54.00			270.00		
Kenchenahalli		5	60.00			300.00		
Ananthapura		4	60.00			240.00		
Chikkabettahalli		4	60.00			240.00		
Doddabettahalli		4	60.00			240.00		
	Rmtr					1590.00	1325.00	2106750.00

Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 (P. No.92/ I. No. 13.15 KPWD SR 2018-19)

Basic rate	388.00							
Area Weightage 6%	23.28							
Total	411.28							
Harohalli		5	300.00			1500.00		
Nagenahalli		5	300.00			1500.00		
Kenchenahalli		5	300.00			1500.00		
Ananthapura		5	300.00			1500.00		
Chikkabettahalli		5	300.00			1500.00		
Doddabettahalli		5	300.00			1500.00		
	mtr					9000.00	411.28	3701520.00

Providing 250mm dia PVC Pipe BWSSB SR 17-18 PNO 133 SL NO 1.11

	Rmtr							
Harohalli		5	6.00			30.00		
Nagenahalli		5	6.00			30.00		
Kenchenahalli		5	6.00			30.00		
Ananthapura		4	6.00			24.00		
Chikkabettahalli		4	6.00			24.00		
Doddabettahalli		4	6.00			24.00		
						162.00	1353.00	219186.00

Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990. P. No. 7/ I No. (2.6.4) 3cx 6.0 Sqm KPWD Electrical SR 2019-20

Harohalli		5	620.00			3100.00		
Nagenahalli		5	620.00			3100.00		

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
inchenahalli		5	620.00			3100.00		
anathapura		5	620.00			3100.00		
chikkabettahalli		5	620.00			3100.00		
doddabettahalli		5	620.00			3100.00		
	Mtr					18600.00	205.00	3813000.00

exmo, Atalanta, Suguna, CRI KIRLOSKER AND other equipment pumps 15.00 HP/11KW(30 Stage)P. No. LII I No.43) (K.P.W.D SR 2018-19)

arohalli		5				5.00		
lagenahalli		5				5.00		
enchenahalli		5				5.00		
Ananthapura		5				5.00		
Chikkabettahalli		5				5.00		
Doddabettahalli		5				5.00		
	Nos					30.00	63498.00	1904940.00

Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia (P No.40, I No. 6.1) KPWD Electrical SR 2019-20

Harohalli		5				5.00		
Nagenahalli		5				5.00		
Kenchenahalli		5				5.00		
Ananthapura		5				5.00		
Chikkabettahalli		5				5.00		
Doddabettahalli		5				5.00		
	NO					30.00	2999.70	89991.00

Supplying and Fixing 20"x20"x2.5"polished wood board made up not less than 15mm thick plank with front plank one end providing for olding at other end fixing the same to the valve using tapered bolts and nuts, (P No. 24 No.5.6.6 KPWD Electrical SR 2019-20)

Harohalli		5				5.00		
Nagenahalli		5				5.00		
Kenchenahalli		5				5.00		
Ananthapura		5				5.00		
Chikkabettahalli		5				5.00		
Doddabettahalli		5				5.00		
	Each					30.00	292.00	8760.00

Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp (2CX 10Sqmm.mm wire armoured) confirming IS 3975;1990(no.of strip indicated i GTP) AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.A.4 Core 16Sqmm.P No.40/ I No.6.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2019-20

Harohalli		5	30.00			150.00		
Nagenahalli		5	30.00			150.00		
Kenchenahalli		5	30.00			150.00		

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
anathapura		5	30.00			150.00		
chikkabettahalli		5	30.00			150.00		
doddabettahalli		5	30.00			150.00		
	Mtr					900.00	150.00	135000.00

labour charges for laying of 1.1 K.V class UG cable, in existing trench GI Pipe / stoneware pipe / on poles as required In existing trench/duct 6 Sqmm to 16 Sqmm)P No. 41 / I No. 6.5.1 KPWD Electrical SR 2019-20

harohalli		5	30.00			150.00		
nagenahalli		5	30.00			150.00		
kenchenahalli		5	30.00			150.00		
anathapura		5	30.00			150.00		
chikkabettahalli		5	30.00			150.00		
doddabettahalli		5	30.00			150.00		
	Mtr					900.00	11.88	10692.00

supplying and fixing of procelin fuse channel with e on existing wooden / panel using necessary nuts, bolts and washers , 63 Amps (P No. 44 / I No. 5.7.3 KPWD Electrical SR 2019-20)

harohalli		5				5.00		
nagenahalli		5				5.00		
kenchenahalli		5				5.00		
anathapura		5				5.00		
chikkabettahalli		5				5.00		
doddabettahalli		5				5.00		
	Each					30.00	227.00	6810.00

Providing and fixing in position 50mm nominal bore non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications (Page No.95 Item No. 13.62 / PWD SR 2018-19)

Basic rate	1269.00							
Area Weightage 6%	76.14							
Total	1345.14							
harohalli		5				5.00		
nagenahalli		5				5.00		
kenchenahalli		5				5.00		
anathapura		5				5.00		
chikkabettahalli		5				5.00		
doddabettahalli		5				5.00		
	Nos					30.00	1345.14	40354.20

Supplying and fixing miniature circuit breakers on existing MCB Distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross -3 with short circuit breaking capacity of 10K And Completed wiring confirming to IEC 60898 50-63 Amps TPN (P. No. 27 I No.5.17.9) KPWD Electrical SR 2019-20

harohalli		5				5.00		
nagenahalli		5				5.00		
kenchenahalli		5				5.00		
anathapura		5				5.00		
chikkabettahalli		5				5.00		
doddabettahalli		5				5.00		
	Each					30.00	2397.00	71910.00

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (P. No.6/ I No 2.3 PWD SR 2018-19)								
Basic rate	299.00							
Area Weightage 6%	17.94							
Total	316.94		1.3m dia					
Water harvesting pit								
Harohalli		10	1.32		2.50	33.00		
Nagenahalli		8	1.32		2.50	26.40		
Kenchenahalli		10	1.32		2.50	33.00		
Ananthapura		25	1.32		2.50	82.50		
Chikkabettahalli		25	1.32		2.50	82.50		
Doddabettahalli		25	1.32		2.50	82.50		
Pipeline								
Harohalli		5	435.00	0.75	0.60	978.75		
Nagenahalli		5	450.00	0.75	0.60	1012.50		
Kenchenahalli		5	435.00	0.75	0.60	978.75		
Ananthapura		5	458.00	0.75	0.60	1030.50		
Chikkabettahalli		5	464.00	0.75	0.60	1044.00		
Doddabettahalli		5	465.00	0.75	0.60	1046.25		
	Cum					6430.65	316.94	2038130.21
Providing and filling sand in foundation to required depth for sub soil treatment including watering and ramming with all lead and lift complete as per specifications. (P.No-7,I No-2.13 of PWD BCSR 2018-19)								
Basic rate	2060.00							
Area Weightage 6%	123.6							
Total	2183.60							
Pipeline								
Harohalli		5	435.00	0.30	0.30	195.75		
Nagenahalli		5	450.00	0.30	0.30	202.50		
Kenchenahalli		5	435.00	0.30	0.30	195.75		
Ananthapura		5	458.00	0.30	0.30	206.10		
Chikkabettahalli		5	464.00	0.30	0.30	208.80		
Doddabettahalli		5	465.00	0.30	0.30	209.25		
	Cum					1218.15	2183.60	2659952.34
Supplying PVC ring tight pipes conformin to IS 4980 :2000 With latest amendments and conveying to work site rolling and lowering into trenches laying true line level and prefect linking at joints testing and commisssoning incuding loading and un loading at both destinations and cuts of pipes wherever necessary including joints of PVC pipes and specificals (excluding cost of pipes)with jointing of approval type with all labour with all lead and lift incuding encasing the pipe alround to adepth of not less then 15cms with soft gravel or selected earth availble from the excavation etc., completed and giving necessary hydraulic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing)(P. No.133 I No 1.4 BWSSB SR 2018-19) 63mm outer dia, 6kg/sqcm & class 5								
Pipeline								

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
Harohalli		5	435.00			2175.00		
Nagenahalli		5	450.00			2250.00		
Kenchenahalli		5	435.00			2175.00		
Ananthapura		5	458.00			2290.00		
Chikkabettahalli		5	464.00			2320.00		
Doddabettahalli		5	465.00			2325.00		
	Mtr					13535.00	122.00	1651270.00

Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of labour complete as per specifications. P. No. 7.1/ I No. (2.11) KPWD SR 2018-19

Basic rate	121.00							
Area Weightage 6%	7.26							
Total	128.26							
Pipeline								
Harohalli		5	435.00	0.75	0.40	652.50		
Nagenahalli		5	450.00	0.75	0.40	675.00		
Kenchenahalli		5	435.00	0.75	0.40	652.50		
Ananthapura		5	458.00	0.75	0.40	687.00		
Chikkabettahalli		5	464.00	0.75	0.40	696.00		
Doddabettahalli		5	465.00	0.75	0.40	697.50		
	Cum					4060.50	128.26	520799.73

Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)

Basic rate	1882.00							
Area Weightage 6%	112.92							
Total	1994.92							
Harohalli		3	435.00	0.75	0.15	146.81		
Nagenahalli		3	450.00	0.75	0.15	151.88		
Kenchenahalli		3	435.00	0.75	0.15	146.81		
Ananthapura		4	458.00	0.75	0.15	206.10		
Chikkabettahalli		4	464.00	0.75	0.15	208.80		
Doddabettahalli		4	465.00	0.75	0.15	209.25		
	Cum					1069.65	1994.92	2133866.18

KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18 of PWD BCSR 2018-19)

Basic rate	1888.00							
Area Weightage 6%	113.28							
Total	2001.28							
Harohalli		3	435.00	0.75	0.20	195.75		
Nagenahalli		3	450.00	0.75	0.20	202.50		

Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
chenahalli		3	435.00	0.75	0.20	195.75		
nthapura		4	458.00	0.75	0.20	274.80		
kkabettahalli		4	464.00	0.75	0.20	278.40		
ddabettahalli		4	465.00	0.75	0.20	279.00		
	Cum					1426.20	2001.28	2854225.54

RRB M600-1. Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and 456 Table-5. with OPC at 150 kg/cum and Coarse aggregate 0.86cum, Fine aggregate 0.58cum using concrete batch Mix Plant at 75 Cum/hr capacity with fixed form Paver(I No-22.1.2, P No-174)

Basic rate	3665.00							
Issue rate=3*103.69	311.07							
Sub Total	3976.07							
Area Weightage 6%	238.56							
Total	4214.63							
Harohalli		2	435.00	0.75	0.15	97.88		
Nagenahalli		2	450.00	0.75	0.15	101.25		
Kenchenahalli		2	435.00	0.75	0.15	97.88		
Ananthapura		1	458.00	0.75	0.15	51.53		
Chikkabettahalli		1	464.00	0.75	0.15	52.20		
Doddabettahalli		1	465.00	0.75	0.15	52.31		
	Cum					453.04	4214.63	1909387.34

Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum, Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (P.No-176, I No 22.6.1)

Basic rate	4916.00							
Issue rate=7.2*103.69	746.57							
Sub Total	5662.57							
Area Weightage 6%	339.75							
Total	6002.32							
Harohalli		2	435.00	0.75	0.15	97.88		
Nagenahalli		2	450.00	0.75	0.15	101.25		

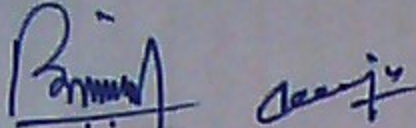
Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
Towards DPR and PMC Charges								836500.00
Sub Total								41994001.81
Utility Shifting, Miscellaneous and Rounding off								5,998.19
GRAND TOTAL								42000000.00

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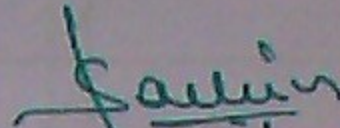
he workspot was inspected and works is found to be necessary.

he area comes within the Bruhat Bangalore Mahanagara Palike limits.

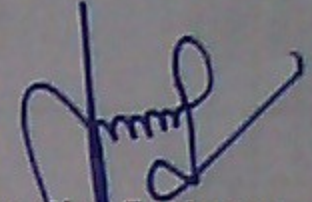
he rates adopted based on the PWD SR, Bangalore circle for year 2018-2019, issue rates dated 02-11-2021, Data es , PRED, BWSSB and KPWD Electrical SR for year 2019-20



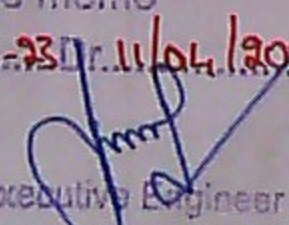
Assistant Engineer
Yelahanka Division
BBMP Bangalore



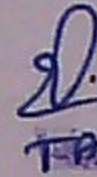
Asst. Executive Engineer,
Yelahanka Division
BBMP Bangalore

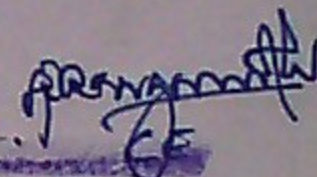


Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Sanction for Rs. 420.00 Lakhs.
Rs. Four crore Twenty
lakes only
 is accorded under head 15th Finance
 Registered as CE No. 01 Subject
 to conditions contained in enclosed memo
 No. BBMP/EE/YNK/01/AS/2022-23 Dt. 11/04/2022

 Executive Engineer

Technical Sanction
 Accorded For 420.00 lakhs.
 Head of A/C
 CER NO : 61 Dt: 13/12/2021


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